

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 77-130

NPDES NO. CA0006190

WASTE DISCHARGE REQUIREMENTS FOR:

TEXACO, INC., RICHMOND SALES TERMINAL  
RICHMOND, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board), finds that:

1. Texaco, Inc., (hereinafter called the discharger), submitted an application dated April 30, 1974, to the Board for waste discharge requirements and a permit to discharge wastes under the National Pollutant Discharge Elimination System (NPDES) for its Richmond Sales Terminal.
2. The discharger currently receives and stores petroleum fuels and lubricants, and ships those products by truck. The discharger's terminal discharges waste consisting of boiler blowdown, drainage and washdown from product loading and storage areas, runoff from other parts of the terminal, effluent from a septic tank serving about eight (8) employees, and effluent from a truck washrack. These wastes are combined, treated in an oil separator, and discharged into Santa Fe Channel of Richmond Harbor, an arm of San Francisco Bay and a water of the United States at an average rate of 5,000 gallons (18.9 cubic meters) per day and a maximum rate of 20,000 gallons (75.7 cubic meters) per day.
3. The Board on March 18, 1975, decided to indefinitely postpone consideration of waste discharge requirements for the discharger until the U. S. Environmental Protection Agency (EPA) finalized treatment standards for petroleum-handling facilities.
4. The EPA on July 26, 1976, and February 24, 1977, issued memoranda establishing treatment standards for all petroleum marketing terminals owned or operated by Texaco, Inc.
5. A Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) was adopted by the Board on April 8, 1975. This Basin Plan contains water quality objectives for the San Francisco Bay and Santa Fe Channel of Richmond Harbor.

6. The beneficial uses of Santa Fe Channel of Richmond Harbor and contiguous waters are:
  - a. Recreation
  - b. Fish migration and habitat
  - c. Habitat and resting for waterfowl and migratory birds
  - d. Industrial water supply
  - e. Esthetic enjoyment
  - f. Navigation
7. Section 301(b) of the Federal Water Pollution Control Act Amendments of 1972 requires all dischargers other than publicly-owned treatment works to achieve effluent limitations based upon best practicable control technology currently available (BPCTCA) no later than July 1, 1977. The aforementioned EPA memoranda define BPCTCA for the discharger's facility.
8. This project involves the continued operation of a privately-owned facility with negligible or no expansion of use beyond that previously existing. Consequently, this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Water Code.
9. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that Texaco, Inc., in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder and the provisions of the Federal Water Pollution Control Act Amendments of 1972 and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The discharge of wastewater from truck washing operations to waters of the State is prohibited.
2. The discharge of cleaning chemicals or products of petroleum origin to waters of the State is prohibited. Any spills of such materials shall be promptly cleaned up and prevented from mixing with precipitation runoff which discharges into waters of the State.
3. The discharge of sewage-bearing waste to waters of the State is prohibited.

B. Effluent Limitations

1. Effluent discharged shall not exceed the following limits:

<u>Constituent</u>	<u>Units</u>	<u>Daily Average</u>
Oil & Grease not to exceed	(1) mg/l	30
	lb/day	5.0
	kg/day	2.3

- (1) Daily average concentration limit for oil & grease shall be deemed exceeded if the analyses of any two representative grab samples taken at least six (6) hours apart each individually exceed 30 mg/l.
2. The pH of the discharge shall not exceed 8.5 nor be less than 6.5.
3. In any representative set of samples, the waste as discharged shall meet the following limit of quality:

Toxicity: The survival of a test organism acceptable to this Regional Board in 96-hour bioassays of the effluent as discharged shall achieve a median of 90% survival for three consecutive samples and a 90 percentile value of not less than 70% survival for ten (10) consecutive samples.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in water of the State at any place.
- a. Floating, suspended, or deposited macroscopic particulate matter or foam;
  - b. Alteration of turbidity or apparent color beyond present **natural background levels**;
  - c. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
  - d. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:
- a. Dissolved oxygen      5.0 mg/l minimum - 80% saturation. When natural factors cause lesser concentration then specified above, then discharge shall not cause further reduction in the concentration of dissolved oxygen.

- b. Dissolved sulfide            0.1 mg/l maximum
- c. pH                            Variation from natural ambient pH by more than 0.2 pH units.

D. Provisions

1. The discharger shall immediately comply with all terms of this Order.
2. The discharger shall comply with the attached Self-Monitoring and Reporting Program as ordered by the Executive Officer.
3. The discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements", dated April 1977, except A.5.
4. This Order expires November 1, 1982. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.

This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act or amendments thereto, and shall become effective ten (10) days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on October 18, 1977.

FRED H. DIERKER  
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

TEXACO, INC., RICHMOND SALES TERMINAL

RICHMOND, CONTRA COSTA COUNTY

NPDES NO. CA 0006190

ORDER NO. 77-130

Effective October 18, 1977

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board. (See APPENDIX E.)

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Officer. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in fewer than 15 minutes.

2. Standard Observations

a. Receiving Water

(1) Floating and suspended materials of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence, source, and size of affected area.

- (2) Discoloration and turbidity: description of color, source, and size of affected area.
- (3) Odor: presence or absence, characterization, source, and distance of travel.
- (4) Evidence of beneficial water use: presence of water-associated wildlife, fishermen, and other recreational activities in the vicinity of the sampling stations.
- (5) Hydrographic condition:
  - (a) Time and height of high and low tides corrected to nearest location for the sampling date and time of sample and collection.
  - (b) Water and sampling depths.
- (6) Weather condition:
  - (a) Air temperatures.
  - (b) Wind - direction and estimated velocity.
  - (c) Precipitation - total precipitation during the previous five days and on the day of observation.

b. Waste Effluent

- (1) Floating and suspended material of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence.
- (2) Odor: presence or absence, characterization, source, distance of travel.

c. Beach and Shoreline

- (1) Material of waste origin: presence or absence, description of material, estimated size of affected area, and source.
- (2) Beneficial use: estimated number of people sunbathing, swimming, waterskiing, surfing, etc.

d. Periphery of Waste Treatment and/or Disposal Facilities

- (1) Odor: presence or absence, characterization, source, and distance of travel.
- (2) Weather condition: wind - direction and estimated velocity.

D. SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

The discharger is required to perform observations, sampling, and analyses according to the schedule in Table I with the conditions that grab samples of effluent shall be collected during periods of maximum peak flows, unless otherwise stipulated.

E. RECORDS TO BE MAINTAINED

1. Written reports, calibration and maintenance records, and other records shall be maintained at the waste treatment plant and shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board or Regional Administrator of the U. S. Environmental Protection Agency, Region IX. Such records shall show the following for each sample:
  - a. Identity of sampling and observation stations by number.
  - b. Date and time of sampling and/or observations.
  - c. Date and time that analyses are started and completed, and name of personnel performing the analyses.
  - d. Complete procedure used, including method of preserving sample and identity and volumes of reagents used. A reference to specific section of Standard Methods is satisfactory.
  - e. Calculations of results.
  - f. Results of analyses and/or observations.
2. A tabulation shall be maintained showing the total waste flow or volume for each day.
3. A tabulation relative to bypassing and accidental waste spills shall be maintained showing information items listed in Sections F-1 and F-2 for each occurrence.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

A report shall be made of any spill of oil or other hazardous material. Spills shall be reported to this Regional Board and the U. S. Coast Guard by telephone immediately after occurrence. A written report shall be filed with the Regional Board within five (5) days and shall contain information relative to:

- a. nature of waste or pollutant,
- b. quantity involved,
- c. cause of spilling,



- d. estimated size of affected area,
- e. nature of effects (i.e., fishkill, discoloration of receiving water, etc.),
- f. corrective measures that have been taken, or planned, and a schedule of these activities, and
- g. persons notified.

## 2. Bypass Reports

Bypass reporting shall be an integral part of regular monitoring program reporting, and a report on bypassing of untreated waste or bypassing of any treatment unit(s) shall be made which will include cause, time, and date, duration and estimated volume of waste bypassed, method used in estimating volume, and persons notified, for planned and/or unplanned bypass.

The discharger shall file a written technical report at least 15 days prior to advertising for bid on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said report shall describe the nature, costs, and scheduling of all action necessary to preclude such discharge. In no case should any discharge of sewage-bearing wastes be permitted without at least primary treatment and chlorination.

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (a) maintenance work, power failures, or breakdown of waste treatment equipment, or
- (b) accidents caused by human error or negligence, or
- (c) other causes such as acts of nature,

the discharger shall notify the Regional Board Office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.

In addition, if the noncompliance caused by items (a), (b), or (c) above is with respect to any of the effluent limits, the waste discharger shall promptly accelerate his monitoring program to analyze the discharge at least once every day for those constituents which have been violated. Such daily analyses shall continue until such time as the effluent limits have been attained, or until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report.

## 3. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar quarter (unless specified otherwise) by the fifteenth day of the following month. The reports shall include:

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as plant operation modifications and/or plant facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. Monitoring reports and the letter transmitting reports shall be signed by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates,

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared using the example shown in APPENDIX A. The discharger will prepare the format using those parameters and requirement limits for receiving water and effluent constituents specified in his permit.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Section G by date, time, type of sample, and station, signed by the laboratory director. The report format will be prepared using the examples shown in APPENDIX B.

e. Effluent Data Summary

Summary tabulations of the data to include for flow rate and each constituent total number of analyses, maximum, minimum, and average values for each period.

f. List of Approved Analyses

- (1) Listing of analyses for which the discharger is approved by the State Department of Health.
- (2) List of analyses performed for the discharger by another approved laboratory (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

4. Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain a tabular summary of the monitoring data obtained during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger using the examples shown in APPENDIX D and should be maintained and submitted with each regular self-monitoring report.

G. MONITORING SPECIFICATIONS

1. Description of Sampling Stations

a. Effluent

<u>Station</u>	<u>Description</u>
E-1	At any point in the outfall from the oil separator between the point of discharge and the point at which all waste tributary to it is present.

b. Receiving Waters

<u>Station</u>	<u>Description</u>
C-1	Along an arc in Santa Fe Channel, located within twenty-five (25) feet from the point of discharge from the oil separator.

c. Land Observations

<u>Station</u>	<u>Description</u>
P-1 through P-'n'	Located along the waterfront of the terminal facilities, at equidistant intervals, not to exceed fifty (50) feet. (A sketch showing the locations of these stations will accompany each report.)

## 2. Schedule of Sampling and Analysis

- a. The schedule of sampling and analysis shall be that given as Table I.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No.
2. Was ordered by the Executive Officer on October 18, 1977 and became effective immediately.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER  
Executive Officer

October 18, 1977

Date ordered

Attachment:  
Table I

TABLE I (continued)  
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-1		Wet		C-1	P-1 thru P-n							
	Dry Weather		Weather										
TYPE OF SAMPLE		G	O	G	O	O	O						
Flow Rate, mgd		D											
Oil & Grease mg/l (l)		M		M									
Oil & Grease lb/day		M											
pH, electrometric		M											
Toxicity, % Survival in waste as discharged		A											
Standard Observations			M		M <sup>(2)</sup>	W	W						

LEGEND FOR TABLE

Type of Sample

G = grab  
O = observation

Type of Station

E = waste effluent  
C = receiving water  
P = perimeter of terminal site

Sampling Frequency

A = annually - when normal waste and tank bleed-off are being discharged  
D = daily  
W = weekly  
M = monthly

NOTES

1. The "daily average" limitation for oil and grease stated in the permit shall be deemed to have been exceeded if either:
  - a. The arithmetic average of the analyses of all representative samples taken during a calendar month by the discharger in accordance with the monitoring requirements set forth above exceeds 30 mg/l; or
  - b. The analyses of any two representative grab samples taken at least six (6) hours apart during any thirty (30) day period each individually exceed 30 mg/l.

Each sample taken by either the discharger or the Agency shall be presumed to be representative. However, due to the variability of the sampling and analysis of oil and grease discharged from petroleum marketing terminals, the discharger may in good faith declare a maximum of 10% of the samples taken by it during a calendar year, but not more than one sample taken during any calendar month, to be non-representative. No sample may be so excluded if it is the only sample taken by the discharger during a calendar month. Such a declaration must be included in writing with the next Monitoring Report submitted in accordance with the permit, and must include the results of the analysis of the excluded sample and a written explanation for the exclusion of that sample. If any sample is so excluded, the "daily average" concentration shall be the arithmetic average of the analyses of the remaining non-excluded samples.

NOTES (CONTINUED)

2. Observe during the first hour of runoff from the first daylight storm of each month.

TABLE 1 (5)  
Requirement Compliance Summary - An Example

Parameter	WASTE EFFLUENT										RECEIVING WATER																					
	BOD			SUSPENDED SOLIDS			FECAL COLIFORM BACTERIA		pH	TOXICITY			TEMPERATURE		ZINC			BYPASSES	DISSOLVED OXYGEN	pH	DISSOLVED SULFIDES	COLIFORM ORGANISMS	FLOATING SOLIDS OR FOAM	FLOATING OIL	TURBIDITY AND/OR DISCOLORATION	ATMOSPHERIC ODOR OF WASTE ORIGIN						
Limit	Arithmetic mean - 30 consecutive days 30mg/L	Arithmetic mean - 7 consecutive days 45mg/L	Percent removal - 85%	30 consecutive days	Arithmetic mean - 30 consecutive days 30mg/L	Arithmetic mean - 7 consecutive days 45mg/L	Percent removal - 85%	30 consecutive days	Geometric Mean - 30 consecutive days - 200 per 100ml	Geometric mean - 7 consecutive days - 400 per 100ml	7.0 - 8.5	Tc - X1 maximum	Tc - X2 mean	TER - X3 mgd	86° F maximum	Δ20° F of R/W ambient	0.5 mg/L maximum	4 kg/day mean 30 days	5 kg/day maximum	Number of occurrences	Minimum of 5.0 mg/L	Minimum of 7.0	Maximum of 8.5	Maximum of 0.1 mg/L	Not more than 20% of the samples from any station shall exceed MPN of 1000/100ml in any 30-day period							
Jan.					0/1	0/4			0/1		4/30	(1)									2/2(4)											
Feb.					1/1	4/4			0/1												2/2(4)											
Mar.					1/1	4/4	(3)		0/1(2)												2/2(4)											
Apr.																																
May																																
June																																
July																																
Aug.																																
Sep.																																
Oct.																																
Nov.																																
Dec.																																

See Reverse Side for Instructions

--See Reverse Side for Instructions--

FOOTNOTES:

- (1) 4/30 means that on 4 of 30 days sampled during the indicated month, the pH requirement was violated.
  - (2) 0/1 means that the geometric mean for the 30 consecutive days in this month was less than 200/100ml Fecal Coliform.
  - (3) 4/4 means that all of 4 weekly arithmetic means exceeded 45 mg/L Suspended Solids.
  - (4) 2/2 means DO samples were collected on two days during each of the indicated months and on each sampling day at least one station was found in violation of requirement.
  - (5) Each discharger shall prepare his compliance summary using constituents and requirement limits specified in his permit.
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Analysis by:

[illegible]

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
2. Enter reported minimum, average and maximum values under "QUANTITY" and "CONCENTRATION" in the units specified for each parameter as appropriate. Do not enter values in boxes containing asterisks. "AVERAGE" is average computed over actual time discharge is operating. "MAXIMUM" and "MINIMUM" are extreme values observed during the reporting period.
3. Specify the number of analyzed samples that exceed the maximum (and/or minimum as appropriate) permit conditions in the columns labeled "No. Ex." If none, enter "0".
4. Specify frequency of analysis for each parameter as No. analyses/No. days. (e.g., "3/7" is equivalent to 3 analyses performed every 7 days.) If continuous enter "CONT".
5. Specify sample type ("grab" or "hr. composite") as applicable. If frequency was continuous, enter "NA".
6. Appropriate signature is required on bottom of this form.
7. Remove carbon and retain copy for your records.
8. Fold along dotted lines, staple and mail Original to office specified in permit.

ST	15-24	14-16	PERMIT NUMBER	17-21	18-22	19-23	20-24	21-25	22-26	23-27	24-28	25-29	26-30	27-31	28-32	29-33	30-34	31-35	32-36	33-37	34-38	35-39	36-40	37-41	38-42	39-43	40-44	41-45	42-46	43-47	44-48	45-49	46-50	47-51	48-52	49-53	50-54	51-55	52-56	53-57	54-58	55-59	56-60	57-61	58-62	59-63	60-64	61-65	62-66	63-67	64-68	65-69	66-70	67-71	68-72	69-73	70-74	71-75	72-76	73-77	74-78	75-79	76-80	77-81	78-82	79-83	80-84	81-85	82-86	83-87	84-88	85-89	86-90	87-91	88-92	89-93	90-94	91-95	92-96	93-97	94-98	95-99	100-101	101-102	102-103	103-104	104-105	105-106	106-107	107-108	108-109	109-110	110-111	111-112	112-113	113-114	114-115	115-116	116-117	117-118	118-119	119-120	120-121	121-122	122-123	123-124	124-125	125-126	126-127	127-128	128-129	129-130	130-131	131-132	132-133	133-134	134-135	135-136	136-137	137-138	138-139	139-140	140-141	141-142	142-143	143-144	144-145	145-146	146-147	147-148	148-149	149-150	150-151	151-152	152-153	153-154	154-155	155-156	156-157	157-158	158-159	159-160	160-161	161-162	162-163	163-164	164-165	165-166	166-167	167-168	168-169	169-170	170-171	171-172	172-173	173-174	174-175	175-176	176-177	177-178	178-179	179-180	180-181	181-182	182-183	183-184	184-185	185-186	186-187	187-188	188-189	189-190	190-191	191-192	192-193	193-194	194-195	195-196	196-197	197-198	198-199	199-200	200-201	201-202	202-203	203-204	204-205	205-206	206-207	207-208	208-209	209-210	210-211	211-212	212-213	213-214	214-215	215-216	216-217	217-218	218-219	219-220	220-221	221-222	222-223	223-224	224-225	225-226	226-227	227-228	228-229	229-230	230-231	231-232	232-233	233-234	234-235	235-236	236-237	237-238	238-239	239-240	240-241	241-242	242-243	243-244	244-245	245-246	246-247	247-248	248-249	249-250	250-251	251-252	252-253	253-254	254-255	255-256	256-257	257-258	258-259	259-260	260-261	261-262	262-263	263-264	264-265	265-266	266-267	267-268	268-269	269-270	270-271	271-272	272-273	273-274	274-275	275-276	276-277	277-278	278-279	279-280	280-281	281-282	282-283	283-284	284-285	285-286	286-287	287-288	288-289	289-290	290-291	291-292	292-293	293-294	294-295	295-296	296-297	297-298	298-299	299-300	300-301	301-302	302-303	303-304	304-305	305-306	306-307	307-308	308-309	309-310	310-311	311-312	312-313	313-314	314-315	315-316	316-317	317-318	318-319	319-320	320-321	321-322	322-323	323-324	324-325	325-326	326-327	327-328	328-329	329-330	330-331	331-332	332-333	333-334	334-335	335-336	336-337	337-338	338-339	339-340	340-341	341-342	342-343	343-344	344-345	345-346	346-347	347-348	348-349	349-350	350-351	351-352	352-353	353-354	354-355	355-356	356-357	357-358	358-359	359-360	360-361	361-362	362-363	363-364	364-365	365-366	366-367	367-368	368-369	369-370	370-371	371-372	372-373	373-374	374-375	375-376	376-377	377-378	378-379	379-380	380-381	381-382	382-383	383-384	384-385	385-386	386-387	387-388	388-389	389-390	390-391	391-392	392-393	393-394	394-395	395-396	396-397	397-398	398-399	399-400	400-401	401-402	402-403	403-404	404-405	405-406	406-407	407-408	408-409	409-410	410-411	411-412	412-413	413-414	414-415	415-416	416-417	417-418	418-419	419-420	420-421	421-422	422-423	423-424	424-425	425-426	426-427	427-428	428-429	429-430	430-431	431-432	432-433	433-434	434-435	435-436	436-437	437-438	438-439	439-440	440-441	441-442	442-443	443-444	444-445	445-446	446-447	447-448	448-449	449-450	450-451	451-452	452-453	453-454	454-455	455-456	456-457	457-458	458-459	459-460	460-461	461-462	462-463	463-464	464-465	465-466	466-467	467-468	468-469	469-470	470-471	471-472	472-473	473-474	474-475	475-476	476-477	477-478	478-479	479-480	480-481	481-482	482-483	483-484	484-485	485-486	486-487	487-488	488-489	489-490	490-491	491-492	492-493	493-494	494-495	495-496	496-497	497-498	498-499	499-500	500-501	501-502	502-503	503-504	504-505	505-506	506-507	507-508	508-509	509-510	510-511	511-512	512-513	513-514	514-515	515-516	516-517	517-518	518-519	519-520	520-521	521-522	522-523	523-524	524-525	525-526	526-527	527-528	528-529	529-530	530-531	531-532	532-533	533-534	534-535	535-536	536-537	537-538	538-539	539-540	540-541	541-542	542-543	543-544	544-545	545-546	546-547	547-548	548-549	549-550	550-551	551-552	552-553	553-554	554-555	555-556	556-557	557-558	558-559	559-560	560-561	561-562	562-563	563-564	564-565	565-566	566-567	567-568	568-569	569-570	570-571	571-572	572-573	573-574	574-575	575-576	576-577	577-578	578-579	579-580	580-581	581-582	582-583	583-584	584-585	585-586	586-587	587-588	588-589	589-590	590-591	591-592	592-593	593-594	594-595	595-596	596-597	597-598	598-599	599-600	600-601	601-602	602-603	603-604	604-605	605-606	606-607	607-608	608-609	609-610	610-611	611-612	612-613	613-614	614-615	615-616	616-617	617-618	618-619	619-620	620-621	621-622	622-623	623-624	624-625	625-626	626-627	627-628	628-629	629-630	630-631	631-632	632-633	633-634	634-635	635-636	636-637	637-638	638-639	639-640	640-641	641-642	642-643	643-644	644-645	645-646	646-647	647-648	648-649	649-650	650-651	651-652	652-653	653-654	654-655	655-656	656-657	657-658	658-659	659-660	660-661	661-662	662-663	663-664	664-665	665-666	666-667	667-668	668-669	669-670	670-671	671-672	672-673	673-674	674-675	675-676	676-677	677-678	678-679	679-680	680-681	681-682	682-683	683-684	684-685	685-686	686-687	687-688	688-689	689-690	690-691	691-692	692-693	693-694	694-695	695-696	696-697	697-698	698-699	699-700	700-701	701-702	702-703	703-704	704-705	705-706	706-707	707-708	708-709	709-710	710-711	711-712	712-713	713-714	714-715	715-716	716-717	717-718	718-719	719-720	720-721	721-722	722-723	723-724	724-725	725-726	726-727	727-728	728-729	729-730	730-731	731-732	732-733	733-734	734-735	735-736	736-737	737-738	738-739	739-740	740-741	741-742	742-743	743-744	744-745	745-746	746-747	747-748	748-749	749-750	750-751	751-752	752-753	753-754	754-755	755-756	756-757	757-758	758-759	759-760	760-761	761-762	762-763	763-764	764-765	765-766	766-767	767-768	768-769	769-770	770-771	771-772	772-773	773-774	774-775	775-776	776-777	777-778	778-779	779-780	780-781	781-782	782-783	783-784	784-785	785-786	786-787	787-788	788-789	789-790	790-791	791-792	792-793	793-794	794-795	795-796	796-797	797-798	798-799	799-800	800-801	801-802	802-803	803-804	804-805	805-806	806-807	807-808	808-809	809-810	810-811	811-812	812-813	813-814	814-815	815-816	816-817	817-818	818-819	819-820	820-821	821-822	822-823	823-824	824-825	825-826	826-827	827-828	828-829	829-830	830-831	831-832	832-833	833-834	834-835	835-836	836-837	837-838	838-839	839-840	840-841	841-842	842-843	843-844	844-845	845-846	846-847	847-848	848-849	849-850	850-851	851-852	852-853	853-854	854-855	855-856	856-857	857-858	858-859	859-860	860-861	861-862	862-863	863-864	864-865	865-866	866-867	867-868	868-869	869-870	870-871	871-872	872-873	873-874	874-875	875-876	876-877	877-878	878-879	879-880	880-881	881-882	882-883	883-884	884-885	885-886	886-887	887-888	888-889	889-890	890-891	891-892	892-893	893-894	894-895	895-896	896-897	897-898	898-899	899-900	900-901	901-902	902-903	903-904	904-905	905-906	906-907	907-908	908-909	909-910	910-911	911-912	912-913	913-914	914-915	915-916	916-917	917-918	918-919	919-920	920-921	921-922	922-923	923-924	924-925	925-926	926-927	927-928	928-929	929-930	930-931	931-932	932-933	933-934	934-935	935-936	936-937	937-938	938-939	939-940	940-941	941-942	942-943	943-944	944-945	945-946	946-947	947-948	948-949	949-950	950-951	951-952	952-953	953-954	954-955	955-956	956-957	957-958	958-959	959-960	960-961	961-962	962-963	963-964	964-965	965-966	966-967	967-968	968-969	969-970	970-971	971-972	972-973	973-974	974-975	975-976	976-977	977-978	978-979	979-980	980-981	981-982	982-983	983-984	984-985	985-986	986-987	987-988	988-989	989-990	990-991	991-992	992-993	993-994	994-995	995-996	996-997	997-998	998-999	999-1000	1000-1001	1001-1002	1002-1003	1003-1004	1004-1005	1005-1006	1006-1007	1007-1008	1008-1009	1009-1010	1010-1011	1011-1012	1012-1013	1013-1014	1014-1015	1015-1016	1016-1017	1017-1018	1018-1019	1019-1020
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TABLE 2 - An Example  
ANNUAL AVERAGE WASTE CHARACTERISTICS AND LOADING SUMMARY  
(Unless otherwise noted, figures in the table are average values.)

PARAMETER	FLOW		BOD		SUSPENDED SOLIDS		OIL & GREASE		FISH TOXICITY		NH <sub>3</sub> -N		NO <sub>3</sub> -N		ORGANIC-N		PHOSPHATE		HEAVY METALS	
	Avg. Daily (mgd)	Max. Daily (mgd)	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	TI-50	% Survival in Effluent	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day
MONTH																				
JANUARY																				
FEBRUARY																				
MARCH																				
APRIL																				
MAY																				
JUNE																				
JULY																				
AUGUST																				
SEPT.																				
OCTOBER																				
NOVEMBER																				
DECEMBER																				
ANNUAL AVERAGE																				

FOOTNOTE: (1) Heavy metal concentrations and loadings should be given for each individual metal and should include at least Cadmium, Chromium, Copper, Lead, Mercury, and Zinc.

TABLE 4  
ANNUAL WASTE CHARACTERISTIC AND LOADING SUMMARY  
-- AN EXAMPLE --

PARA-METER  1975 MONTH		B O D									
		CONCENTRATION (mg/l)					LOADING (lbs/day)				
		Maximum	Minimum	Average	No. of Showing Violation	Samples Total Analyzed	Maximum	Minimum	Average	No. of Showing Violation	Samples Total Analyzed
JANUARY											
FEBRUARY											
MARCH											
APRIL											
MAY											
JUNE											
JULY											
AUGUST											
SEPTEMBER											
OCTOBER											
NOVEMBER											
DECEMBER											
ANNUAL MAXIMUM											
ANNUAL MINIMUM											
ANNUAL AVERAGE											
TOTAL											